

1 Lankton, Pulak, Gratuze Captions for supplementary tables S1-S4

2 Table S1. 192 Uluburun ingot samples and 5 Mycenaean relief beads by excavation number,  
3 CMG (Corning Museum of Glass) number assigned by Robert Brill for publication in Brill  
4 (1999) or Brill and Stapleton (2012), chemical sub-group based on Cluster Analysis, color, brief  
5 description, chemical analysis for 54 oxides or elements as described in text, Sr isotope ratio  
6 where available and cluster observations from 85 to 99% similarity based on Cluster Analysis of  
7 192 ingot samples and 5 relief beads from the shipwreck, 373 Late Bronze Age samples, 35  
8 repeat analyses of ingot section CMG 5975 and 133 repeat analyses of glass standard NIST 612.  
9 Samples with group numbers in parentheses not included to calculate mean compositions shown  
10 in Table 4. Oxides and Cl in wt% (weight percent), elements in parts per million (ppm), reduced  
11 compositions indicated by \*. Abbreviations: unk unknown, bd below detection. Sr isotope ratios  
12 previously published (Brill and Stapleton 2012) in italics. See text for details. Samples may be  
13 sorted by ingot number or chemical compositional group using columns A and B.

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15 Table S2. 373 Late Bronze Age glass analyses including 18 previously published from the same  
16 laboratory (Varberg et al., 2015, 2016). The 355 new analyses represent 222 different objects  
17 since many of the vessel fragments are polychrome (see Figure 2 for examples). Details include  
18 country of origin, archaeological site, approximate date, reference including sample source,  
19 sample number, color, short description including largest dimension, Egyptian (E) or  
20 Mesopotamian (M) composition determined by Cluster Analysis, chemical analysis for 54 oxides  
21 or elements described in text, Sr isotope ratio where available, and cluster observations as  
22 described for Table S1. Sample numbers followed by capital letters indicate separate samples;  
23 lower case letters indicate different colors in the same sample. Abbreviations: CMG (Corning  
24 Museum of Glass), AP (Allard Pierson Museum), CMG/BCSR (Corning Museum of Glass/Brill  
25 Collection for Scientific Research), UCL (University College London), NMD (National Museum  
26 of Denmark), BMUA (Bodrum Museum of Underwater Archaeology). Oxides and Cl in wt%,  
27 elements in ppm, reduced compositions with \*; na not analyzed; bd below detection. Sr isotope  
28 ratio format as described for Table S1. Samples may be sorted by site and number using column  
29 A.

30 Table S3. Repeat measurements of NIST 612 and Corning A on days of Uluburun analyses with  
31 calculated values for mean, relative deviation (RD) and trueness (absolute value of reference  
32 minus experimental divided by reference). NIST reference values from Jochum et al., 2011;  
33 Corning A reference values from Brill, 1999 (a), Brill and Stapleton, 2012 (b), Vicenzi, 2002 (c),  
34 Wagner et al., 2012 (d). Oxides and Cl in weight percent, elements in parts per million.

### 35 **Supplemental References**

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37 Birnbaum, K., Frick, D.A., Günther, D., Enzweiler, J., 2011. Determination of reference values  
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40 Vicenzi, E.P., Eggins, S., Logan, A., Wysoczanski, R., 2002. Microbeam characterization of  
41 Corning archeological reference glasses: New additions to the Smithsonian Microbeam Standard  
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43 727.

44 Wagner, B., Nowak, A., Bulska, E., Hametner, K., Günther, D., 2012. Critical assessment of the  
45 elemental composition of Corning archeological reference glasses by LA-ICP-MS. *Analytical*  
46 *and Bioanalytical Chemistry* 402, 1667-1677.

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48 Table S4. 28 proposed Uluburun glass ingot batches with mean values and relative deviations  
49 (RD) for 54 oxides or elements. Color, number of samples, and minimum number of ingots  
50 indicated for each group. Oxides and Cl in weight percent, elements in parts per million. RD  
51 calculated as standard deviation divided by mean value. For individual analyses of group  
52 members see Table S1.

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